## Approved For Release 1999/09/25 CIA-RPP84-00951R000300030006-2

Machine Division

File Lukers

Charged with the responsibility for the development and efficient operation of special machines and equipment for OCD, and for providing advisory services for CTA offices and TAC new agencies on thr availability and use of machine methods and equipment for intelligence operations, the machine experts in OCD were always looking for and experimenting with new systems and/or equipment.

A few of these during the early 1950's included the following: 25X1A9a

1. The Luhn Equipment or the Project
The Machine Division worked closely with OSI, which
25X1A5a

had originally sponsored this project with

identifying and recovering information was to utilize IBM cards and specialized IBM machines (developed by H. Luhn) as preparation and selection media. The code system is utilized in this system required that five out of twelve possible positions had to be punched in each column of coded information, thus allowing approximately 750 separate meanings to be punched in each card column. This system required searching of all material contained in the file for each request. The encoding of each word or phrase as such related it to other terminology useful for machine searching. Dr. and his team from part as well as spent many months in 114 with OSI personnel. Machine Division personnel.

personnel, and Analysis Branch indexers, in the latter for the

detelopment of a code in the "servantic factoring type

Inventory of the Love learn to being the being the being the being the being the best of t

25X1A5a1

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By November 1952 Andrews wrote AD/OIC that he did not feel that much tangible henefit would be gained by the project and he did not approve of an extension of the contract.

25X1A5a1

25X1A9a

2.

Coordinate Indexing

Department of Agriculture in 1952 given by

coordinate indexing. This form of indexing was a logical

approach to cards were set up for each subject encounterted,

and on each card, document numbers were entered for each document

that contained that subject. Fift/fift/br/sefifs/of faffit If a

relationship between two subjects was required, then two cards

or series of cards relating to the two subjects would be

pulled and coincidence of document numbers could be noted visually.

A simple logical system, the authors stressed that it could be

applied with many applications, both manually and mechanically.

25X1A9a 25X1A5a1 25X1A5a1 25X1A9a 25X1A5a1

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This project was carried on jointly between form of the personnel and University. The basic idea was to combine a picture of a document or photograph on film with a dot code pattern immediately preceding it and building a machine to be known as a Rapid Film by 25x1A5a1 of Dept. pf Agriculture; later one of Library Consultants in 1957), capable of selecting required frames of documents or pictures through the use of an identifying mechanism, recognizing proper code dot patterns and yeilding another strip of film containing the images of the selected frames

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Because the system MD commented that the system would require a complete search of all material and that it would not be possible to process the film until all scanning had been completed. Therefore, the system would be too slow and cumbersome for mass production requirements.

delector could need the realistic but high standards required and by this deine was felt that it could do a fair better job that the Rafid telector

By 1954/55 DCD had doubt that the Rapid,

Excluded from automatic downgrading and declassification

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